

Facility name: CUSTOM ORGANICS, INC.

Location: 1445 W. 42ND ST. CHICAGO, IL.

EPA Region: 7

Person(s) in charge of the facility: CLIFF GOULD - ILLINOIS EPA -
MAYWOOD 312/345-9780

Name of Reviewer: A. SEWALL Date: 2-28-84

General description of the facility:
 (For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

CUSTOM ORGANICS IS A SOLVENT-RECLAIMER FACILITY
LOCATED WITHIN THE ORIGINAL STOCKYARDS AREA OF CHICAGO.
THE FACILITY OPERATES UNDER RCRA INTERIM STATUS -
NO DISPOSAL OF HAZARDOUS MATERIALS OCCURS ON SITE.
BY-PRODUCTS OF RECLAIMING PROCESSES INCLUDE STILL BOTTOMS
(STORED IN DRUMS - REMOVED ONCE EVERY 2 MONTHS) AND COOLING
WATER (DISCHARGE TO MUNICIPAL SANITARY DISTRICT).

Scores: $S_M = 0$ ($S_{gw} = 0$ $S_{sw} = 0$ $S_a = 0$)
 $S_{FE} = N/A$
 $S_{DC} = N/A$

FIGURE 1
HRS COVER SHEET

US EPA RECORDS CENTER REGION 5



459034

Ground Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	<u>0</u> 45	1	<u>0</u>	45	3.1	
If observed release is given a score of 45, proceed to line 4 . If observed release is given a score of 0, proceed to line 2 .						
2 Route Characteristics					3.2	
Depth to Aquifer of Concern	0 1 <u>2</u> 3	2	<u>4</u>	6		
Net Precipitation	0 <u>1</u> 2 3	1	<u>1</u>	3		
Permeability of the Unsaturated Zone	0 <u>1</u> 2 3	1	<u>1</u>	3		
Physical State	<u>0</u> 1 2 3	1	<u>0</u>	3		
Total Route Characteristics Score			<u>6</u>	15		
3 Containment	<u>0</u> 1 2 3	1	<u>0</u>	3	3.3	
4 Waste Characteristics					3.4	
Toxicity/Persistence	<u>0</u> 3 6 9 12 15 18	1	<u>0</u>	18		
Hazardous Waste Quantity	<u>0</u> 1 2 3 4 5 6 7 8	1	<u>0</u>	8		
Total Waste Characteristics Score			<u>0</u>	26		
5 Targets					3.5	
Ground Water Use	0 1 2 3	3		9		
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1		40		
Total Targets Score				49		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			<u>0</u>	57,330		
7 Divide line 6 by 57,330 and multiply by 100	$S_{gw} = \underline{0}$					

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Surface Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	<u>0</u> 45	1	<u>0</u>	45	4.1	
If observed release is given a value of 45, proceed to line 4 . If observed release is given a value of 0, proceed to line 2 .						
2 Route Characteristics					4.2	
Facility Slope and Intervening Terrain	<u>0</u> 1 2 3	1		3		
1-yr. 24-hr. Rainfall	0 1 2 3	1		3		
Distance to Nearest Surface Water	0 1 2 3	2		6		
Physical State	0 1 2 3	1		3		
Total Route Characteristics Score				15		
3 Containment	<u>0</u> 1 2 3	1	<u>0</u>	3	4.3	
4 Waste Characteristics					4.4	
Toxicity/Persistence	<u>0</u> 3 6 9 12 15 18	1	<u>0</u>	18		
Hazardous Waste Quantity	<u>0</u> 1 2 3 4 5 6 7 8	1	<u>0</u>	8		
Total Waste Characteristics Score			<u>0</u>	26		
5 Targets					4.5	
Surface Water Use	0 1 2 3	3		9		
Distance to a Sensitive Environment	0 1 2 3	2		6		
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1		40		
Total Targets Score				55		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			<u>0</u>	64,350		
7 Divide line 6 by 64,350 and multiply by 100			$S_{sw} = $ <u>0</u>			

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

Air Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	(0) 45	1	0	45	5.1	
Date and Location:						
Sampling Protocol:						
If line 1 is 0, the $S_a = 0$. Enter on line 5 . If line 1 is 45, then proceed to line 2 .						
2 Waste Characteristics					5.2	
Reactivity and Incompatibility	0 1 2 3	1		3		
Toxicity	0 1 2 3	3		9		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8		
Total Waste Characteristics Score				20		
3 Targets					5.3	
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30		
Distance to Sensitive Environment	0 1 2 3	2		6		
Land Use	0 1 2 3	1		3		
Total Targets Score				39		
4 Multiply 1 x 2 x 3			0	35,100		
5 Divide line 4 by 35,100 and multiply by 100 $S_a = 0$						

FIGURE 9
AIR ROUTE WORK SHEET

	s	s ²
Groundwater Route Score (S _{gw})	0	0
Surface Water Route Score (S _{sw})	0	0
Air Route Score (S _a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		0

FIGURE 10
WORKSHEET FOR COMPUTING S_M

Fire and Explosion Work Sheet <i>N/A</i>						
Rating Factor	Assigned Value (Circle One)		Multi- plier	Score	Max. Score	Ref. (Section)
1 Containment	1	3	1		3	7.1
2 Waste Characteristics						7.2
Direct Evidence	0	3	1		3	
Ignitability	0	1 2 3	1		3	
Reactivity	0	1 2 3	1		3	
Incompatibility	0	1 2 3	1		3	
Hazardous Waste Quantity	0	1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score					20	
3 Targets						7.3
Distance to Nearest Population	0	1 2 3 4 5	1		5	
Distance to Nearest Building	0	1 2 3	1		3	
Distance to Sensitive Environment	0	1 2 3	1		3	
Land Use	0	1 2 3	1		3	
Population Within 2-Mile Radius	0	1 2 3 4 5	1		5	
Buildings Within 2-Mile Radius	0	1 2 3 4 5	1		5	
Total Targets Score					24	
4 Multiply 1 x 2 x 3					1,440	
5 Divide line 4 by 1,440 and multiply by 100				SFE = <i>N/A</i>		

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

Direct Contact Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
1 Observed Incident	0 45	1		45	8.1	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2						
2 Accessibility	0 1 2 3	1		3	8.2	
3 Containment	0 15	1		15	8.3	
4 Waste Characteristics Toxicity	0 1 2 3	5		15	8.4	
5 Targets					8.5	
Population Within a 1-Mile Radius	0 1 2 3 4 5	4		20		
Distance to a Critical Habitat	0 1 2 3	4		12		
Total Targets Score				32		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5				21,600		
7 Divide line 6 by 21,600 and multiply by 100			SDC = <i>N/A</i>			

FIGURE 12
DIRECT CONTACT WORK SHEET

June 29, 1982

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: CUSTOM ORGANICS, INC.

LOCATION: 1445 W. 42nd ST. CHICAGO, IL.

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

NONE DOCUMENTED.

Rationale for attributing the contaminants to the facility:

* * *

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

SILURIAN DOLOMITE - LIMESTONE

*FROM WELL LOGS FOR PRODUCTION WELLS IN THE VICINITY
OF LUSTON ORGANICS. ECOLOGY & ENVIRONMENT FILES - CHICAGO.*

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

60 FEET - SEE REFERENCE ABOVE

Depth from the ground surface to the lowest point of waste disposal/storage:

*NO WASTE STORED BELOW GROUND SURFACE.
FROM E & E SITE INSPECTION 1-27-84.*

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

32 INCHES - HRS MANUAL

Mean annual lake or seasonal evaporation (list months for seasonal):

30 INCHES HRS MANUAL

Net precipitation (subtract the above figures):

2 INCHES

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

GLACIAL DRIFT - CLAYS AND SILTY CLAYS -
FROM WELL LOGS ECOLOGY & ENVIRONMENT FILES - CHICAGO.

Permeability associated with soil type:

$10^{-5} \geq 10^{-7}$ cm/sec - HRS MANUAL

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

NO HAZARDOUS MATERIALS ARE DISPOSED OF AT THIS FACILITY.
ALL HAZARDOUS SUBSTANCES HANDLED AT THE FACILITY ARE
REGULATED UNDER RCRA. NO RECORDS OF ANY INCIDENTS SUCH
AS SPILLS ARE AVAILABLE. *** THE FACILITY OPERATIONS INVOLVE
RECOVERING SPENT ORGANIC SOLVENTS. PROCESS RESIDUES ARE
COLLECTED IN TANKS AND REMOVED EVERY 2 MONTHS TO CIA LANDFILL.
COOLING WATER IS DISCHARGED INTO MUNICIPAL SANITARY DISTRICT
SEWERS. IN VIEW OF THESE FACTORS, THE SITE WILL SCORE ZERO
DUE TO CONTAINMENT, WASTE³ QUANTITY AND TOXICITY/PERSISTENCE.
FROM REVIEW OF STATE FILES - MAYWOOD, SPRINGFIELD, E & E FILES - CHICAGO,
E & E SITE INSPECTION AND INTERVIEW WITH SITE REPRESENTATIVE A. DURAKOVICH

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

SEE PART 2 "PHYSICAL STATE" GROUNDWATER ROUTE.
ALL DRUMS ARE STORED ON CONCRETE PAAS WHICH ARE ADEQUATELY
DIKED. THESE PAAS ARE SLOPED TOWARDS A RUN OFF COLLECTION
SYSTEM - ANY SURFACE DRAINAGE FROM THESE PAAS IS DIRECTED INTO
Method with highest score: CONTAINED SUMPS WHICH ARE PERIODICALLY
PUMPED.

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

SEE PART 2 "PHYSICAL STATE" GROUNDWATER ROUTE.

Compound with highest score:

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those
with a containment score of 0 (Give a reasonable estimate even if
quantity is above maximum); -

Basis of estimating and/or computing waste quantity:

* * *

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

Distance to above well or building:

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

Total population served by ground water within a 3-mile radius:

SURFACE WATER ROUTE

SEE PART 2 "PHYSICAL STATE"

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5' maximum):

Rationale for attributing the contaminants to the facility:

* * *

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Name/description of nearest downslope surface water:

Average slope of terrain between facility and above-cited surface water body in percent:

Is the facility located either totally or partially in surface water?

Is the facility completely surrounded by areas of higher elevation?

1-Year 24-Hour Rainfall in Inches

Distance to Nearest Downslope Surface Water

Physical State of Waste

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Method with highest score:

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Compound with highest score:

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Basis of estimating and/or computing waste quantity:

I

* * *

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Is there tidal influence?

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

Computation of land area irrigated by above-cited intake(s) and
conversion to population (1.5 people per acre):

Total population served:

Name/description of nearest of above water bodies:

Distance to above-cited intakes, measured in stream miles.

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

NONE DOCUMENTED.

Date and location of detection of contaminants

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

* * *

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Most incompatible pair of compounds:

Toxicity

Most toxic compound:

Hazardous Waste Quantity

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

* * *

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Distance to critical habitat of an endangered species, if 1 mile or less:

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

Basis of estimating and/or computing waste quantity:

* * *

3 TARGETS

Distance to Nearest Population

Distance to Nearest Building

Distance to Sensitive Environment

Distance to wetlands:

Distance to critical habitat:

Land Use

Distance to commercial/industrial area, if 1 mile or less:

FIRE AND EXPLOSION

1 CONTAINMENT

Hazardous substances present:

Type of containment, if applicable:

* * *

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

Ignitability

Compound used:

Reactivity

Most reactive compound:

Incompatibility

Most incompatible pair of compounds:

* * *

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

Population Within 2-Mile Radius

Buildings Within 2-Mile Radius

DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

* * *

2 ACCESSIBILITY

Describe type of barrier(s):

* * *

3 CONTAINMENT

Type of containment, if applicable:

* * *

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Compound with highest score:

* * *

5 TARGETS

Population within one-mile radius

Distance to critical habitat (of endangered species)